TO ARCHITECTS, BUILDERS, CONTRACTORS, &c.

HARTLEY'S PATENT ROUGH PLATE GLASS,

1-8th thick, or 3 lbs. to the foot; 3-16ths, or 3 lbs.; and 1-4th, or 4 lbs. to the foot, for

RIDGE AND FURROW ROOFS, GREENHOUSES, RAILWAY STATIONS, ENGINE SHEDS, MILLS, MARKET HALLS, AND PUBLIC BUILDINGS GENERALLY.

It being universally admitted that Glass in Roofs of a permanent character should not be less than one-eighth of an inch thick, weighing two pounds to the foot, Messrs JAMES HARTLEY and CO. have directed their attention to the manufacture of a description of

ROUGH PLATE GLASS THAT COMBINES SIZE AND STRENGTH WITH ECONOMY OF COST.

The PATENT ROUGH PLATE is manufactured in sizes expressly for Ridge and Furrow Roofs, giving a span of from 9 to 13 feet, at a price not exceeding weight for weight that of common Crown Glass. Nothing transparent, friends are unnecessary, and when used in Greenhouses no scorching occurs. Its NON-TRANSPARENCY and strength render it eminently suitable for the Glazing of Corner rooms and Roofs of all kinds, also Factories, Workshops, &c., for which purposes it is supplied in squares of all sizes, from 6 by 8 inches and upwards.

For further information apply to Messrs JAMES HARTLEY and CO., Wear Glass Works, Sunderland.

N.B.—The Patent Rough Plate is supplied at a much lower cost than the common Rough Plate.—May 1, 1861.

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Supplied, wholesale, retail, and for exportation, by JAMES PHILLIPS and CO., 114, Bishopsgate-street Without.

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THOMAS MILLINGTON begs to inform BUILDERS and the Trade that he can supply them with FOREIGN and ENGLISH WINDOW GLASS, Plain and Coloured, of every description. ROUGH PLATE GLASS from ¼ inch to ¾ inch thick. Glass Pantiles, Slates, &c. &c. White Lead, Paints, Colours, Oils, Varnishes, Brushes, &c.; Milled and Sheet Lands, Lead Pipe from ¼ inch to 4 inches bore; Solder, Water-closets, Baths, Plumbers' and Brass Work of every description, and upon the very best terms. Glass Ornament Shades. Milk pans. Preparing and fine Glasses.—Address, 97, Bishopsgate-street Without.

See Advertisement, Saturday, June 29, 1861.

SOHO GLASS WAREHOUSE, 26, SOHO SQUARE.—ALFRED GUILLETT begs to inform Architects, Builders, and the trade generally, that he is prepared to forward contracts for the following descriptions of Glass upon application:—BRITISH PLATE GLASS, of the finest colour and finish; PATENT PLATE GLASS; ORNAMENTAL GLASS, of all descriptions; COLOURED GLASS; ROUGH PLATE GLASS, ¼, ⅜, and ½ inch thick; PATENT ROLLED ROUGH PLATE, ¼, ⅜, and ½ inch thick; BROWN, AMBER, and HORTICULTURAL GLASS, cut to size and packed, or in crates, as manufactured; BELGIAN SHEET GLASS, in cases containing 200 feet each (Crates included), at 7d. per foot.

E. and W. H. JACKSON beg to call the attention of Builders and the Trade to the LOW PRICES of their PATENT PLATE GLASS, BRITISH PLATE, silvered and bevelled, of unrivalled quality and finish; ROUGH PLATE, BROWN, AMBER, COLOURED, and ORNAMENTAL GLASS, in every variety, of the best manufacture, at the lowest terms. Designs and estimates furnished for ornamental windows either for house or church decoration. All applications for estimates and list of prices to be made at their warehouse, 313, OXFORD-STREET.

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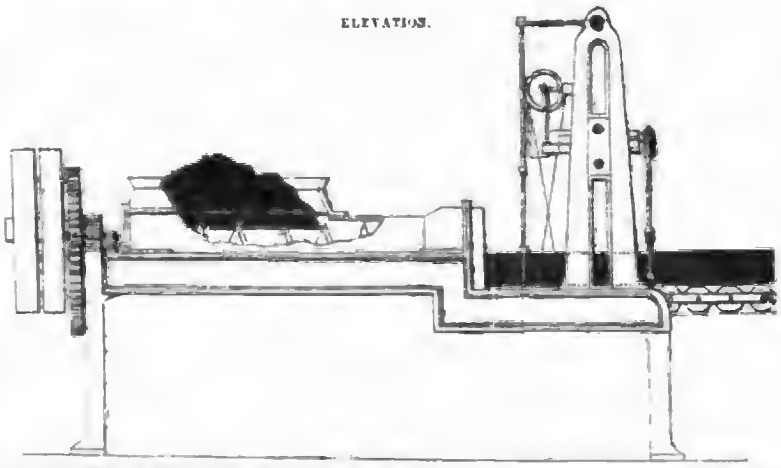
For full particulars of the booking through system between England and Ireland, see Bradshaw's Guide, page 189; Welch's Irish Guide, page 30; Fisher's Irish Guide, page 3.

RANDELL AND SAUNDERS'S PATENT MACHINE,

FOR THE

IMPROVED MANUFACTURE OF BRICKS, TILES, & PIPES.

ELEVATION.



In this machine are combined the two objects so long sought in brick machines—a press which forces the clay through a die without cessation so long as the clay is supplied to the machine, and a perpetual self-setting cutter, which severs the clay the required length without interfering with the progress.

The clay, in a rough state, is thrown upon the screws by the person employed to fill the machine; the screws, in revolving, thoroughly pug the clay, and also force it forward into a chamber at the other end of the cylinder in which they revolve; from this chamber the clay is allowed to issue through a die, and it is obvious that the stream of clay must take the form of the opening through which it passes, and this opening can be made of the form required to make bricks, tiles, pipes, and other descriptions of ware.

When it is necessary to give the ends of the bricks a corrugated shape, this can be done by attaching a knife to the cylinder of the cutter; this knife revolves with the cylinder, and in made the shape required for the ends of the bricks, which form is imparted to the bricks in cutting them. This arrangement is adapted for making Messrs RANDELL and SAUNDERS's Patent Draining Bricks, for sewage purposes, which make a drain of much greater strength, than the stoneware or redware pipes, and as far less cost.

The machine is self-acting—the attendants have merely to put in the clay, and remove the bricks, or other ware, which may be produced.

When worked with two horse power, the machine will produce 1,000 bricks, or 1,800 3-inch pipes, per hour; more power can be applied if desirable, and a larger result obtained.

The screws propel the clay without taking air in with it; thus the ware comes out free from the imperfections which are so often seen in the ware produced by piston presses; and the loss so generally incurred by waste in burning, from the expansion of the air in the ware, is avoided.

The moderate price of this machine, and the simplicity of its construction, place it within the reach of almost every person in the trade, both as to cost and management. It not only lessens the cost of labour required in the process of brick making, but, as the clay can be used in a much drier state than it can be when moulded by the hand, the time occupied in drying is much less; and, when hollow bricks are made, a material saving is effected in the cost of manufacture and burning. In consequence of the great compression given to the clay in its transit, ware of very superior quality is produced.

For price and further particulars apply to RANDELL and SAUNDERS, Bath.

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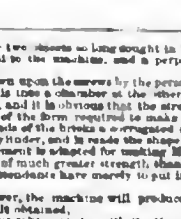

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Patent Pump, with 14 feet of lead pipe attached, and bolts and nuts ready for fixing	2 2 0

Larger sizes if required.

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N.B. VULCANIZED WASHERS and SHEET RUBBER or Steam and Hot Water Pipes, and Packings for Pistons and Stuffing-Boxes of Steam Engines, cut any size to order.

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BRICKS.—20,000 Bricks a day by HART'S PATENT PORTABLE BRICK-MACHINE.—JAMES HART requests attention to the above Machine, equally fitted to insure the performance of the largest contracts, and for the work of the smaller fields; will work any sort of plastic clay, and is variably turn out a first-rate article. May be seen at work daily at the Atlas Works, Borough road, Southwark. Orders for the ensuing season should not be delayed. HART'S PATENT HOLLOW BRICK and TILE MACHINE, the simplest and strongest that can be made, to be seen at work at the same place, and hollow bricks, pipes, and all descriptions of ornamental brick and tile work, 20 feet 6-minute of 3-inch pipe by one man. Agents wanted for the sale of the above and other Machines.—Apply with references, to JAMES HART, Atlas Works, Borough-road, London.

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